

# Maxbase 110

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Date of issue: 01/10/2014

Revision date: 09/15/2015

Version: 2.0



### SECTION 1: Identification

#### 1.1. Identification

Product form : Mixture  
Trade name : Maxbase 110  
Other means of identification : Emulsifier

#### 1.2. Relevant identified uses of the substance or mixture and uses advised against

Use of the substance/mixture : Emulsifier  
Lubricant

#### 1.3. Details of the supplier of the safety data sheet

PCC Chemax, Inc.  
30 Old Augusta Road  
Piedmont, SC 29673 - USA  
T 1-864-277-7000 - F 1-864-277-7807  
[cpatterson@pcc-chemax.com](mailto:cpatterson@pcc-chemax.com) - [www.pcc-chemax.com](http://www.pcc-chemax.com)

#### 1.4. Emergency telephone number

Emergency number : 1-800-424-9300 (CHEMTREC)  
+1-703-527-3887 Outside United States

### SECTION 2: Hazard(s) identification

#### 2.1. Classification of the substance or mixture

##### GHS-US classification

Skin Irrit. 2 H315 - Causes skin irritation  
Eye Irrit. 2A H319 - Causes serious eye irritation

Full text of H-phrases: see section 16

#### 2.2. Label elements

##### GHS-US labeling

Hazard pictograms (GHS-US) :



GHS07

Signal word (GHS-US) : Warning

Hazard statements (GHS-US) : H315 - Causes skin irritation  
H319 - Causes serious eye irritation

Precautionary statements (GHS-US) : P264 - Wash hands and forearms thoroughly after handling  
P280 - Wear eye protection, face protection, protective clothing, protective gloves  
P302+P352 - If on skin: Wash with plenty of soap, water  
P305+P351+P338 - If in eyes: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing  
P321 - Specific treatment (see Response Precautionary Statements on this label)  
P332+P313 - If skin irritation occurs: Get medical advice/attention  
P337+P313 - If eye irritation persists: Get medical advice/attention  
P362+P364 - Take off contaminated clothing and wash it before reuse

#### 2.3. Other hazards

Other hazards not contributing to the classification : Harmful: danger of serious damage to health by prolonged exposure through inhalation, in contact with skin and if swallowed. This material or its emissions may affect the central nervous system and/or aggravate pre-existing disorders. Repeated or prolonged contact may cause sensitization of the skin (dermatitis, reddening,...). Repeated or prolonged exposure to high levels may affect the liver and kidneys. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis.

#### 2.4. Unknown acute toxicity (GHS US)

Not applicable

# Maxbase 110

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### SECTION 3: Composition/Information on ingredients

#### 3.1. Substance

Not applicable

#### 3.2. Mixture

Name	Product Identifier	%	GHS-US classification
Sulfonic acids, petroleum, sodium salts	(CAS No) 68608-26-4	19.5 - 29.25	Eye Irrit. 2A, H319
Fatty acids, tall-oil, compounds with triethanolamine	(CAS No) 68132-46-7	17 - 18	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Water	(CAS No) 7732-18-5	7 - 11.625	Not classified
Distillates, petroleum, hydrotreated heavy naphthenic	(CAS No) 64742-52-5	10	Not classified
Diethylene glycol	(CAS No) 111-46-6	8.5	Not classified
Distillates, petroleum, solvent-refined heavy paraffinic	(CAS No) 64741-88-4	1.625 - 4.875	Skin Irrit. 2, H315 Eye Irrit. 2A, H319
Triethanolamine	(CAS No) 102-71-6	3	Skin Irrit. 2, H315 Eye Irrit. 2B, H320 STOT SE 3, H335
2,4-Pentanediol, 2-methyl-	(CAS No) 107-41-5	0.8	Skin Irrit. 2, H315 Eye Irrit. 2A, H319

Full text of H-phrases: see section 16

### SECTION 4: First aid measures

#### 4.1. Description of first aid measures

- First-aid measures general : Never give anything by mouth to an unconscious person. If you feel unwell, seek medical advice (show the label where possible).
- First-aid measures after inhalation : If breathing is difficult, remove victim to fresh air and keep at rest in a position comfortable for breathing. Call a POISON CENTER or doctor/physician.
- First-aid measures after skin contact : Wash with plenty of soap and water. Discard contaminated clothing. If skin irritation occurs: Get medical advice/attention.
- First-aid measures after eye contact : Immediately flush eyes thoroughly with water for at least 15 minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a poison center or doctor/physician.
- First-aid measures after ingestion : If swallowed, do not induce vomiting: seek medical advice immediately and show this container or label. Rinse mouth.

#### 4.2. Most important symptoms and effects, both acute and delayed

- Symptoms/injuries : May cause lung damage if swallowed. Repeated or prolonged exposure to high levels may affect the liver and kidneys. Repeated or prolonged contact may cause sensitization of the skin (dermatitis, reddening,...). This material or its emissions may affect the central nervous system and/or aggravate pre-existing disorders.
- Symptoms/injuries after inhalation : Irritating to the respiratory system and mucous membranes. Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.
- Symptoms/injuries after skin contact : Causes skin irritation. Repeated or prolonged contact may cause sensitization of the skin (dermatitis, reddening,...).
- Symptoms/injuries after eye contact : Causes serious eye irritation.
- Symptoms/injuries after ingestion : Swallowing a small quantity of this material will result in serious health hazard. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Ingestion may cause nausea, vomiting and diarrhea. On ingestion, may affect the liver and kidneys.
- Chronic symptoms : Repeated or prolonged exposure may cause permanent damage to health. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

#### 4.3. Indication of any immediate medical attention and special treatment needed

Treat symptomatically.

### SECTION 5: Firefighting measures

#### 5.1. Extinguishing media

- Suitable extinguishing media : Carbon dioxide. Dry powder. Foam. Sand. Water spray.
- Unsuitable extinguishing media : Do not use a heavy water stream.

#### 5.2. Special hazards arising from the substance or mixture

- Explosion hazard : Heat may build pressure, rupturing closed containers, spreading fire and increasing risk of burns and injuries.

# Maxbase 110

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 5.3. Advice for firefighters

- Firefighting instructions : Use water spray or fog for cooling exposed containers. Exercise caution when fighting any chemical fire. Prevent fire-fighting water from entering environment.
- Protection during firefighting : Do not enter fire area without proper protective equipment, including respiratory protection.

## SECTION 6: Accidental release measures

### 6.1. Personal precautions, protective equipment and emergency procedures

- General measures : Wear self-contained breathing apparatus when entering area unless atmosphere is proved to be safe.
- 6.1.1. For non-emergency personnel
- Emergency procedures : Evacuate unnecessary personnel.
- 6.1.2. For emergency responders
- Protective equipment : Equip cleanup crew with proper protection.
- Emergency procedures : Ventilate area.

### 6.2. Environmental precautions

Prevent entry to sewers and public waters. Notify authorities if liquid enters sewers or public waters.

### 6.3. Methods and material for containment and cleaning up

- For containment : Soak up spills with inert solids, such as clay or diatomaceous earth as soon as possible.
- Methods for cleaning up : Small quantities of liquid spill: take up in non-combustible absorbent material and shovel into container for disposal. Store away from other materials.

### 6.4. Reference to other sections

See Heading 8. Exposure controls/personal protection.

## SECTION 7: Handling and storage

### 7.1. Precautions for safe handling

- Additional hazards when processed : Avoid contact with skin, eyes and clothing. Avoid prolonged or repeated contact with skin. Do not breathe vapors.
- Precautions for safe handling : Wash hands and other exposed areas with mild soap and water before eating, drinking or smoking and when leaving work. Provide good ventilation in process area to prevent formation of vapor. Use personal protective equipment as required.
- Hygiene measures : Wash hands and forearms thoroughly after handling. Do not eat, drink or smoke when using this product. Wash contaminated clothing before reuse.

### 7.2. Conditions for safe storage, including any incompatibilities

- Storage conditions : Keep only in the original container in a cool, well ventilated place away from : Heat sources, Sources of ignition. Keep container closed when not in use.
- Incompatible products : Strong acids. Strong alkalis. Strong oxidizers.
- Storage area : Store, if possible, in a cool, well ventilated place away from incompatible materials.
- Special rules on packaging : Handle unclean empty containers as full ones.

## SECTION 8: Exposure controls/personal protection

### 8.1. Control parameters

2,4-Pentanediol, 2-methyl- (107-41-5)		
ACGIH	ACGIH Ceiling (ppm)	25 ppm

Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)		
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³ Oil Mist, Mineral (Highly refined)
OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ Oil Mist, Mineral

Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)		
ACGIH	ACGIH TWA (mg/m³)	5 mg/m³ Oil Mist, Mineral (Highly refined)
OSHA	OSHA PEL (TWA) (mg/m³)	5 mg/m³ Oil Mist, Mineral

# Maxbase 110

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### Triethanolamine (102-71-6)

ACGIH

ACGIH TWA (mg/m³)

5 mg/m³

#### 8.2. Exposure controls

Appropriate engineering controls

: Local exhaust and general ventilation must be adequate to meet exposure standards.

Personal protective equipment

: Avoid all unnecessary exposure.

Hand protection

: Wear suitable gloves resistant to chemical penetration.

Eye protection

: Chemical goggles or safety glasses.

Skin and body protection

: Wear suitable protective clothing.

Respiratory protection

: Where exposure through inhalation may occur from use, respiratory protection equipment is recommended.

Other information

: Do not eat, drink or smoke during use.

### SECTION 9: Physical and chemical properties

#### 9.1. Information on basic physical and chemical properties

Physical state

: Liquid

Appearance

: Clear.

Color

: Dark amber

Odor

: Slight

Odor threshold

: No data available

pH

: 9.1 @ 5% in aqueous solution

Melting point

: No data available

Freezing point

: No data available

Boiling point

: No data available

Flash point

: 149 °C Open cup

Relative evaporation rate (butyl acetate=1)

: No data available

Flammability (solid, gas)

: No data available

Explosion limits

: No data available

Explosive properties

: No data available

Oxidizing properties

: No data available

Vapor pressure

: No data available

Relative density

: No data available

Relative vapor density at 20 °C

: No data available

Specific gravity / density

: 1.01 g/cm³

Solubility

: Soluble in water.

Log Pow

: No data available

Auto-ignition temperature

: No data available

Decomposition temperature

: No data available

Viscosity

: No data available

Viscosity, kinematic

: No data available

Viscosity, dynamic

: No data available

#### 9.2. Other information

No additional information available

### SECTION 10: Stability and reactivity

#### 10.1. Reactivity

No additional information available

#### 10.2. Chemical stability

Not established.

#### 10.3. Possibility of hazardous reactions

Not established.

# Maxbase 110

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 10.4. Conditions to avoid

Direct sunlight. Extremely high or low temperatures.

### 10.5. Incompatible materials

Strong acids. Strong alkalis. Strong oxidizers.

### 10.6. Hazardous decomposition products

Carbon dioxide. Carbon monoxide. Nitrogen oxides. Sulphur oxides.

## SECTION 11: Toxicological information

### 11.1. Information on toxicological effects

Acute toxicity : Not classified  
(Lack of data)

Water (7732-18-5)	
LD50 oral rat	> 90 ml/kg
2,4-Pentanediol, 2-methyl- (107-41-5)	
LD50 oral rat	3692 mg/kg
LC50 inhalation rat (mg/l)	> 310 mg/m³ (Exposure time: 1 h)
ATE US (oral)	3692.000 mg/kg body weight
Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 2000 mg/kg
LC50 inhalation rat (mg/l)	2.18 mg/l/4h
ATE US (vapors)	2.180 mg/l/4h
ATE US (dust, mist)	2.180 mg/l/4h
Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)	
LD50 oral rat	> 5000 mg/kg
LD50 dermal rabbit	> 5000 mg/kg
LC50 inhalation rat (mg/l)	> 5 mg/l/4h
Diethylene glycol (111-46-6)	
LD50 oral rat	12565 mg/kg
LD50 dermal rabbit	11890 mg/kg
ATE US (oral)	12565.000 mg/kg body weight
ATE US (dermal)	11890.000 mg/kg body weight
Triethanolamine (102-71-6)	
LD50 oral rat	4190 mg/kg
LD50 dermal rabbit	> 20 ml/kg
ATE US (oral)	4190.000 mg/kg body weight

Skin corrosion/irritation : Causes skin irritation.  
pH: 9.1 @ 5% in aqueous solution

Serious eye damage/irritation : Causes serious eye irritation.  
pH: 9.1 @ 5% in aqueous solution

Respiratory or skin sensitization : Not classified  
(Lack of data)

Germ cell mutagenicity : Not classified  
(Lack of data)

Carcinogenicity : Not classified  
(Lack of data)

Triethanolamine (102-71-6)	
IARC group	3 - Not classifiable
National Toxicology Program (NTP) Status	1 - Evidence of Carcinogenicity

# Maxbase 110

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

Reproductive toxicity	: Not classified (Lack of data)
Specific target organ toxicity (single exposure)	: Not classified (Lack of data)
Specific target organ toxicity (repeated exposure)	: Not classified (Lack of data)
Aspiration hazard	: Not classified (Lack of data)
Symptoms/injuries after inhalation	: Irritating to the respiratory system and mucous membranes. Inhalation may affect the nervous system causing headache, possibly dizziness, nausea, weakness, loss of coordination and unconsciousness.
Symptoms/injuries after skin contact	: Causes skin irritation. Repeated or prolonged contact may cause sensitization of the skin (dermatitis, reddening,...).
Symptoms/injuries after eye contact	: Causes serious eye irritation.
Symptoms/injuries after ingestion	: Swallowing a small quantity of this material will result in serious health hazard. Swallowing the liquid may cause aspiration into the lungs with the risk of chemical pneumonitis. Ingestion may cause nausea, vomiting and diarrhea. On ingestion, may affect the liver and kidneys.
Chronic symptoms	: Repeated or prolonged exposure may cause permanent damage to health. Repeated or prolonged contact with the product may lead to removal of natural fats from the skin resulting in non-allergic contact dermatitis and absorption through the skin.

### SECTION 12: Ecological information

#### 12.1. Toxicity

Ecology - general : This material has not been tested for environmental effects.

<b>2,4-Pentanediol, 2-methyl- (107-41-5)</b>	
LC50 fish 1	10500 - 11000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	2700 - 3700 mg/l (Exposure time: 48 h - Species: Daphnia magna)
LC50 fish 2	10000 mg/l (Exposure time: 96 h - Species: Lepomis macrochirus [static])
<b>Distillates, petroleum, solvent-refined heavy paraffinic (64741-88-4)</b>	
LC50 fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Distillates, petroleum, hydrotreated heavy naphthenic (84742-52-5)</b>	
LC50 fish 1	> 5000 mg/l (Exposure time: 96 h - Species: Oncorhynchus mykiss)
EC50 Daphnia 1	> 1000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Diethylene glycol (111-46-6)</b>	
LC50 fish 1	75200 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
EC50 Daphnia 1	84000 mg/l (Exposure time: 48 h - Species: Daphnia magna)
<b>Triethanolamine (102-71-6)</b>	
LC50 fish 1	10600 - 13000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [flow-through])
LC50 fish 2	> 1000 mg/l (Exposure time: 96 h - Species: Pimephales promelas [static])

#### 12.2. Persistence and degradability

<b>Maxbase 110</b>	
Persistence and degradability	Not established.

<b>Triethanolamine (102-71-6)</b>	
Persistence and degradability	Readily biodegradable.

#### 12.3. Bioaccumulative potential

<b>Maxbase 110</b>	
Bioaccumulative potential	Not established.

# Maxbase 110

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 2,4-Pentanediol, 2-methyl- (107-41-6)

Log Pow	< 0.14
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### Diethylene glycol (111-46-6)

BCF fish 1	100 - 180
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Log Pow	-1.98 (at 25 °C)
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### Triethanolamine (102-71-6)

BCF fish 1	< 3.9
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Log Pow	-2.53
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### 12.4. Mobility in soil

No additional information available

### 12.5. Other adverse effects

Other information : Avoid release to the environment.

## SECTION 13: Disposal considerations

### 13.1. Waste treatment methods

Waste disposal recommendations : Dispose in a safe manner in accordance with local/national regulations.

Additional information : Clean up even minor leaks or spills if possible without unnecessary risk.

Ecology - waste materials : Avoid release to the environment.

## SECTION 14: Transport information

Department of Transportation (DOT)

In accordance with DOT

Not regulated for transport

TDG

No additional information available

Transport by sea

No additional information available

Air transport

No additional information available

## SECTION 15: Regulatory information

### 15.1. US Federal regulations

#### Maxbase 110

Listed on the United States TSCA (Toxic Substances Control Act) inventory

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
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#### Water (7732-18-5)

Other information	No supplementary information available
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#### Distillates, petroleum, hydrotreated heavy naphthenic (64742-52-5)

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard Delayed (chronic) health hazard
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#### Diethylene glycol (111-46-6)

EPA TSCA Regulatory Flag	Y2 - Y2 - indicates an exempt polymer that is a polyester and is made only from reactants included in a specified list of low concern reactants that comprises one of the eligibility criteria for the exemption rule.
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#### Triethanolamine (102-71-6)

SARA Section 311/312 Hazard Classes	Immediate (acute) health hazard
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# Maxbase 110

## Safety Data Sheet

according to Federal Register / Vol. 77, No. 58 / Monday, March 26, 2012 / Rules and Regulations

### 15.2. International regulations

#### National regulations

##### Maxbase 110

Listed on the Canadian DSL (Domestic Substances List) inventory and the NDSL (Non-Domestic Substance List)

Listed on the Korean ECL (Existing Chemicals List)

Listed on IECSC (Inventory of Existing Chemical Substances Produced or Imported in China)

### 15.3. US State regulations

#### 2,4-Pentandiol, 2-methyl- (107-41-5)

U.S. - Massachusetts - Right To Know List

U.S. - Minnesota - Hazardous Substance List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

#### Diethylene glycol (111-46-6)

U.S. - Minnesota - Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

#### Triethanolamine (102-71-6)

U.S. - Massachusetts - Right To Know List

U.S. - Minnesota - Hazardous Substance List

U.S. - New Jersey - Right to Know Hazardous Substance List

U.S. - Pennsylvania - RTK (Right to Know) List

## SECTION 16: Other information

Revision date : 09/15/2015

Other information : None.

Freight Classifications (National Motor Freight Classification) : Cleaning Compound, NOI, Item 48580, Sub 3, Class 55.

#### Full text of H-phrases:

Eye Irrit. 2A	Serious eye damage/eye irritation Category 2A
Eye Irrit. 2B	Serious eye damage/eye irritation Category 2B
Skin Irrit. 2	Skin corrosion/irritation Category 2
STOT SE 3	Specific target organ toxicity (single exposure) Category 3
H315	Causes skin irritation
H319	Causes serious eye irritation
H320	Causes eye irritation
H335	May cause respiratory irritation

SDS US (GHS HazCom 2012) - Custom

*This information is based on our current knowledge and it is intended to describe the product for the purposes of health, safety, and environmental requirements only. No warranty, as to the accuracy, completeness, or adequacy of the information contained herein is either expressed or implied. Users must determine individually, by testing or otherwise, the suitability of this product for their purposes, including mixing with other products. The revision of the document supersedes all those previously issued for the product.*